

Ball joint			
Bearing	Ball dia.	Ball cups	Checking instructions
Supporting joint	32	Plastics	Ball pin should permit moving back and forth without clearance, but also without binding and without rasping noises.
Guide joint	30		

### Notes

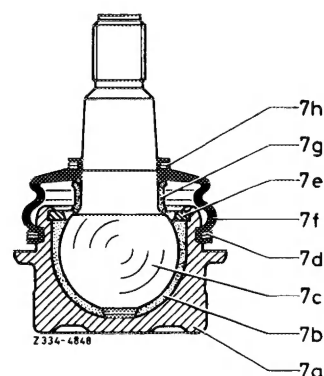
The supporting joint (below) and the guide joint (top) of the steering knuckle bearing are ball joints supported in plastic shells.

The housing of the supporting joint is pressed into the steering knuckle, while the guide joint is located in the upper control arm.

The ball joints require no maintenance, that is, they are provided with lubricant for life. In a service-free joint the seal against the penetration of dirt and sand is of decisive importance for the life of the joint. For this reason, the joints must be carefully checked at regular intervals. If dirt enters through a leaking sleeve while driving, the dirt will inevitably result in early wear of respective joint.

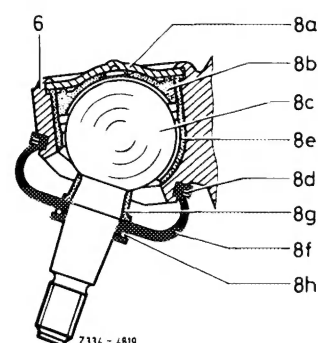
A rubber sleeve damaged during assembly jobs should therefore be immediately replaced. **A joint found operating with a leaking sleeve must be replaced on principle.**

When the guide joint is defective, the complete upper control arm must be replaced.



Supporting joint

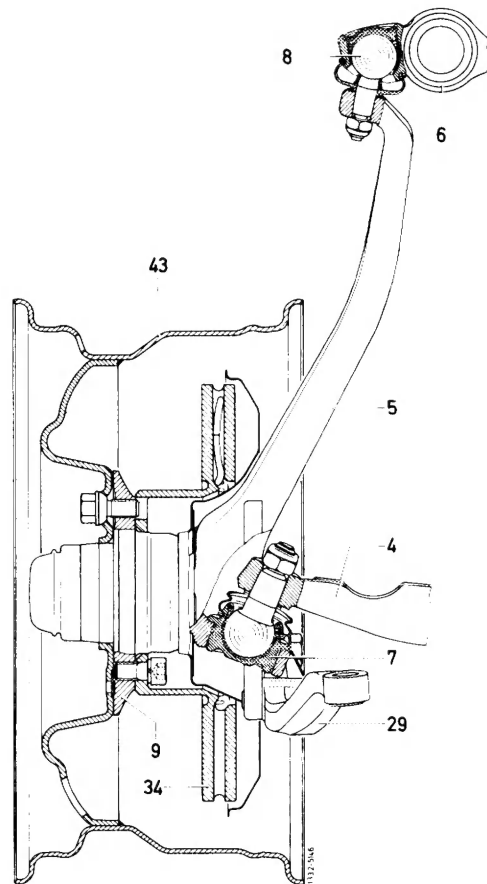
- |                         |                         |
|-------------------------|-------------------------|
| 7a Housing              | 7e Washer               |
| 7b Ball cup             | 7f Sleeve               |
| 7c Ball pin             | 7g Supporting ring      |
| 7d Wire tensioning ring | 7h Wire tensioning ring |



Guide joint

- |                         |                         |
|-------------------------|-------------------------|
| 6 Upper control arm     | 8e Ball cup             |
| 8a Closing cover        | 8f Sleeve               |
| 8b Upper ball cup       | 8g Supporting ring      |
| 8c Ball pin             | 8h Wire tensioning ring |
| 8d Wire tensioning ring |                         |

- 4 Lower control arm
- 5 Steering knuckle
- 6 Upper control arm
- 7 Supporting joint
- 8 Guide joint
- 9 Front wheel hub
- 29 Steering knuckle arm
- 34 Brake disc
- 43 Rim



## Checkup

1 Check ball joints. For this purpose, place tube approx. 150 mm long on ball pin, refer to checking instructions.

2 Check supporting joint for tight seat in steering knuckle.

3 Check sleeves (7f or 8f) for cracks and damage. Check wire tensioning ring (7d or 8d) and wire tensioning ring (7h or 8h) for correct seat.

### Attention!

The interface of the wire tensioning ring (8d) on guide joint should point in driving direction.

